

# Session B2: Habitat Tracking Database

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# Habitat Tracking Overview



- Why a Habitat Tracking Database
- Habitrak – HCP/NCCP Habitat Tracking Example
- Tracking Database Development
- Your Help & Opportunities to Participate

# Habitat Tracking

- **Why Habitat Tracking Database?**
  - **Necessary for Programmatic Permitting Process**
  - **Improve Programmatic and Project Permitting**
  - **Links to Existing and Future:**
    - **Parcels/Land Rights,**
    - **Habitat Conservation Planning (HCP)/Natural Communities Conservation Planning (NCCP) Requirements,**
    - **Mitigation Bank Entitlements and**
    - **(Other) Permits**

# Habitat Tracking (2)

- **Why Habitat Tracking Database?**
  - **Links to Current & Future Land Cover and Habitat Condition**
  - **Need to Track Potential Changes in Habitat Not Directly Linked to SPFC-related Activities**
  - **Essential for Scientific Assessment and Adaptive Management**

# What's Habitrak (DFW & USFWS)?

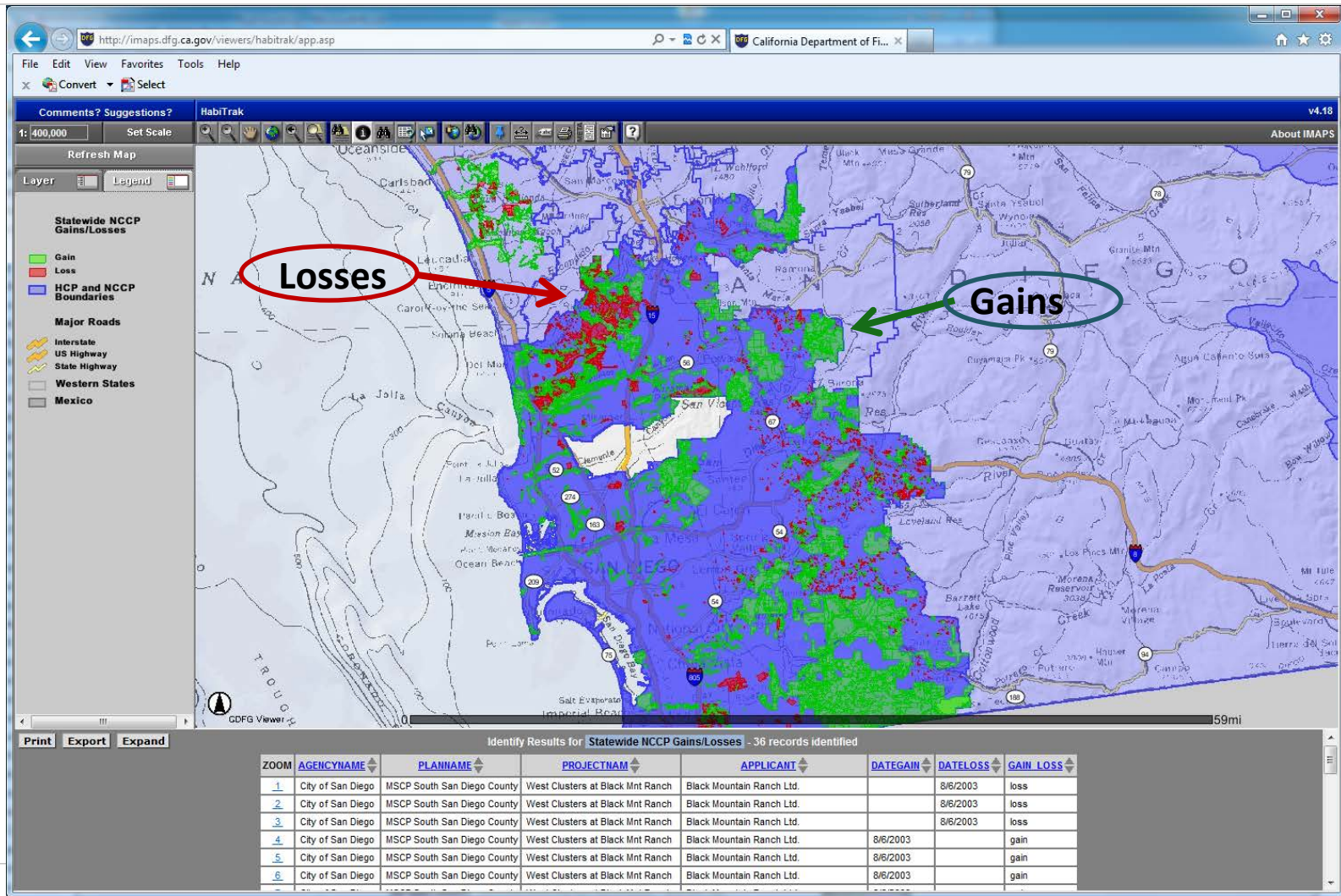
**HabiTrak** – Tool that helps local gov't. and resource agencies track habitat lost & conserved over time due to public and private development projects (currently: focused on San Diego MSCP and Coachella Valley MSHCP)

## Toolset:

- Online Reporting and Mapping tools
- Desktop ArcGIS ext. to input and manage local data

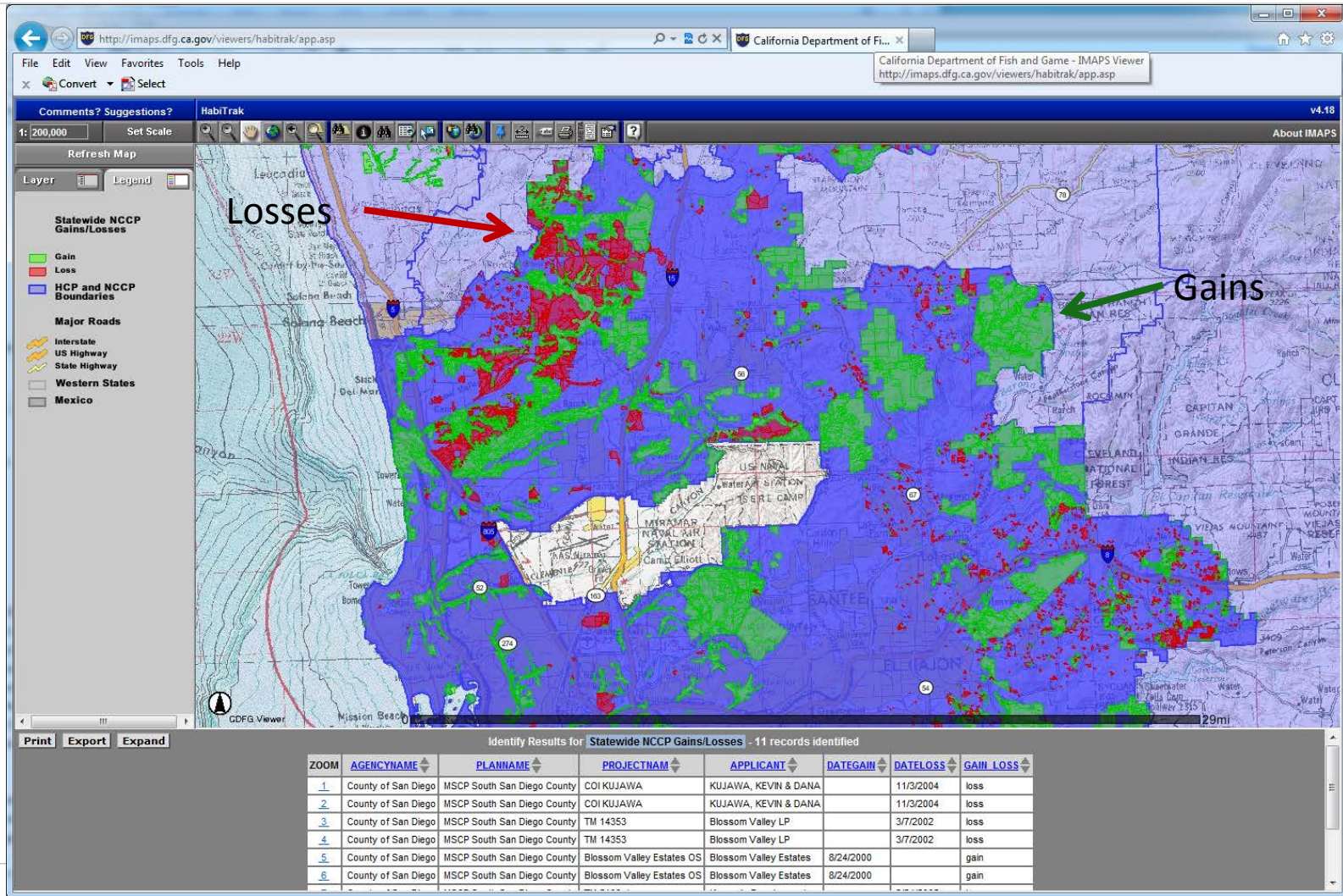
**URL:** <https://nrm.dfg.ca.gov/habitrak/>

# Habitrak Web Viewer: San Diego MSCP





# Habitrak Web Viewer



# Example Habitrak Report

## Habitat Types

City  San Diego

## Habitat Conservation Accounting Model

### MSCP South San Diego County

From 1/1/2012 To 12/31/2012

Project Gain Status: Gain

Project Loss Status: Loss

	Total Subarea Habitat Preserve	Conservation Target	Estimated Take	Conservation Ratio	Cumulative Conservation Inside Habitat Preserve	Max. Allowable Impacts for the Current Period	Actual Loss Inside Habitat Preserve for Current Period
Beach	115	115	0	0.00	77.14	0.00	0.00
Saltpan	136	136	0	0.00	138.92	0.00	0.00
Southern Foredunes	10	9	1	9.00	9.92	1.09	0.00
Southern Coastal Bluff Scrub	144	137	7	19.57	141.01	7.18	0.00
Coastal Sage Scrub	21,185	19,260	1,925	10.01	12,395.90	1,307.55	18.22
Maritime Succulent Scrub	721	694	27	25.70	704.46	27.37	0.00
Chaparral	11,652	10,574	1,078	9.81	8,022.12	843.86	0.43
Southern Maritime Chaparral	1,231	1,128	103	10.95	946.75	88.11	0.00
Coastal Sage-Chaparral Scrub	118	98	20	4.90	267.16	51.07	0.00



# Tracking System Objectives...

- Keep Useful HabiTrak Content and Functionality and Upgrade the Technology
- Add Necessary Content and Functionality
- Share With Other Users

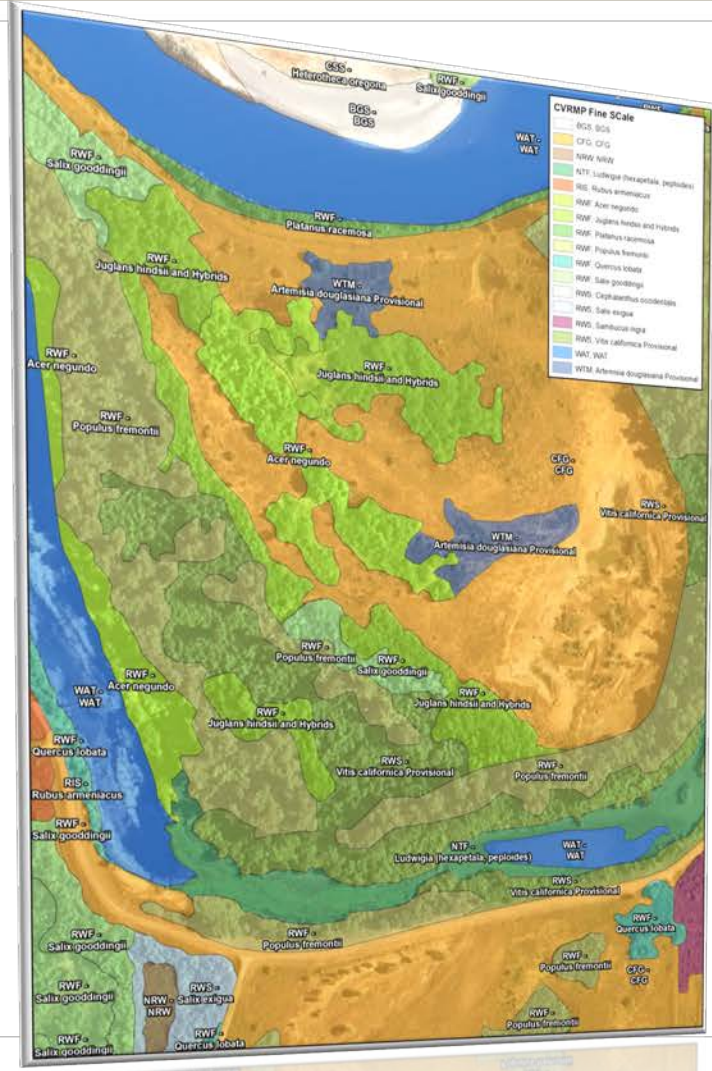
# Next Generation of Habitrak?

- DFW and USFWS hope to improve Habitrak tracking database and (possibly) include some other permits (e.g, CWA 404 Wetlands)
- FESSRO may help with next generation of Habitrak or develop an improved database in accordance with DWR, resources agency and other stakeholder needs (In either case...we do not want to start from scratch)

# Other Indicators to Track

- **Many Features to Track, including:**
  - **Sensitive Species Populations and Distribution**
  - **Habitat-Species Relationships**
  - **Ecological Process Stressors**
  - **Geomorphic Process Indicators**

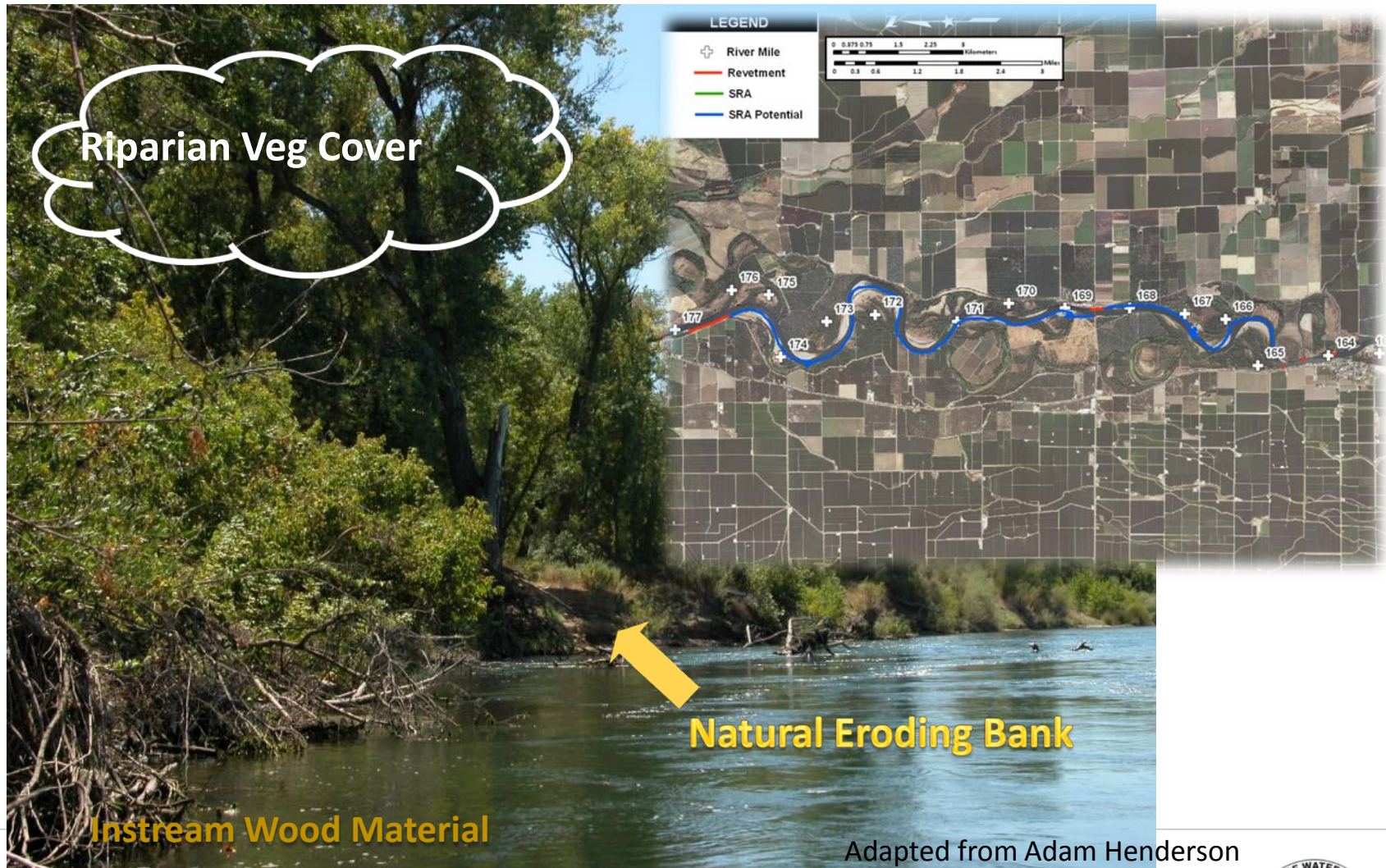
# Riparian & Marsh Veg/Cover



Courtesy of Adam Henderson and Elizabeth Hubert

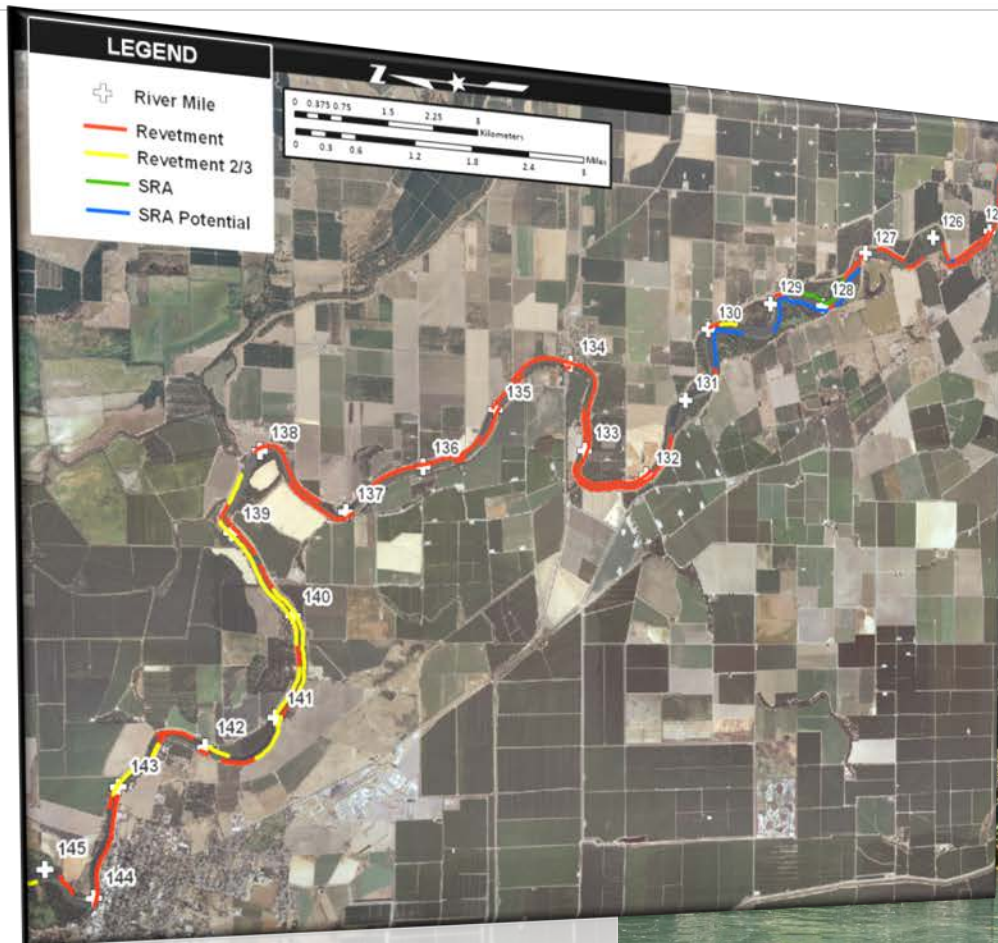


# SRA Cover, Riparian Veg and Bank type





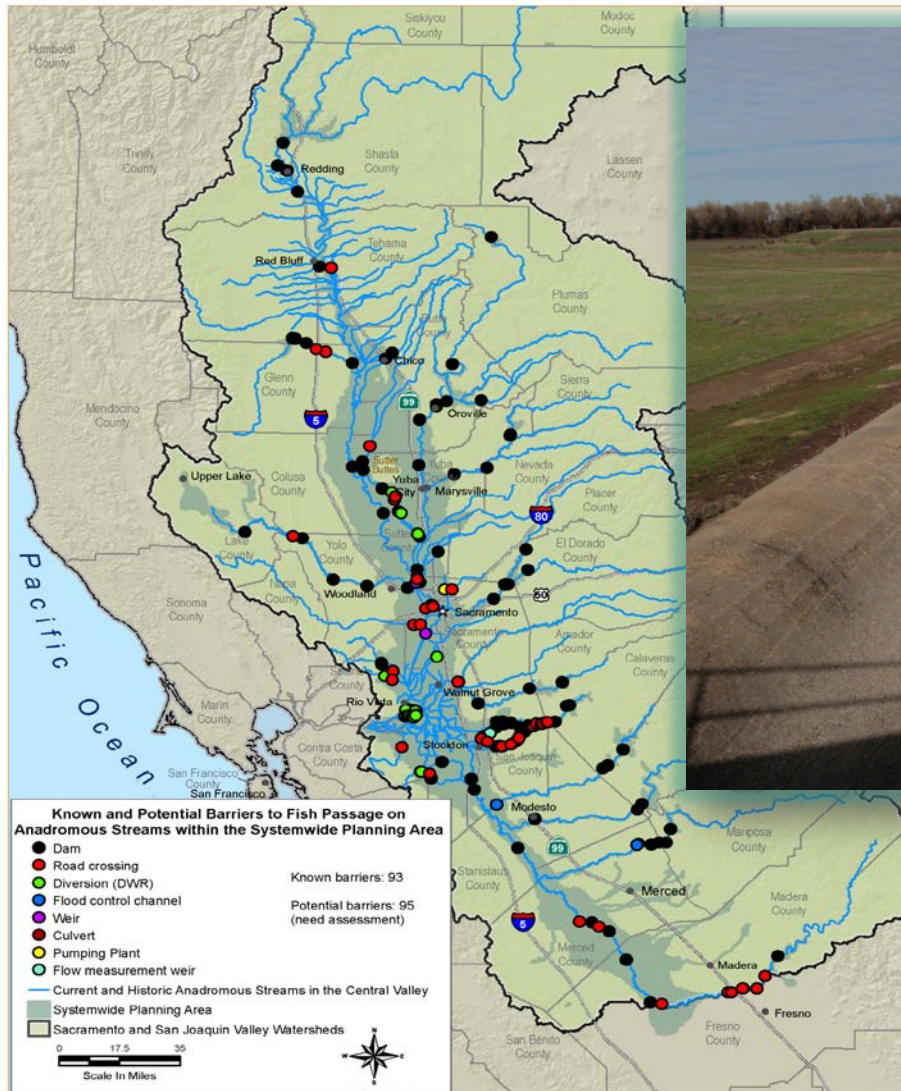
# Revetment



Courtesy of Adam Henderson



# Fish Passage Barriers



Courtesy of Randy Beckwith



# Invasive Plants

*e.g., Arundo donax*

- *Riparian invasive*
  - *Dominates habitat*
  - *Replaces/degrades WL habitat*
  - *Requires comprehensive control/plan*
- **How much can we extract from Med.- and Fine-scale Veg cover mapping?**



Credit: E. Hubert



# Next Steps for “System” Development

- Identify Key Stakeholders & End Users
- Conduct Focus Group Meetings to Discuss Project Flow, Data Management, Users, Reporting Requirements, Intended Use and Functionality
- Draft an Approach to Development of Habitat Tracking and Data Management System
- Develop, Test, and Refine Beta Habitat Tracking and Data Management System
- Finalize Habitat Tracking and Data Mgt. System & Phased Deployment and Enhancements

# Help Us:

- Improve on Habitrak
- Find Other Existing Info and Databases
- Identify Other Related Issues/Info
- Let Us Know if You'd Like to Participate in System Development Stakeholder Meetings

# Questions?



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